

Notice of Allowability

Application No.

10/719,208

Examiner

Sanh D. Phu

Applicant(s)

STEPHENS ET AL.

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment filed on 10/31/2007.
2. ☒ The allowed claim(s) is/are 1,2,6,7,9-22 and 25-34.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

1. This Office Action is responsive to the Amendment filed on 10/31/2007.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

This application is in condition for allowance except for the presence of claims 35 and 36 directed to 1-36 non-elected without traverse. Accordingly, claims 35 and 36 have been cancelled.

REASONS FOR ALLOWANCE

3. Claims 1, 2, 6, 7, 9-22, 25-34 are allowed.
4. The following is an examiner's statement of reasons for allowance:

Claims 1, 2, 6, 7, 9-22, 25-34 are allowable over the prior art of record for the reason as stated in the Applicant's Remark dated on 10/31/2007 pages 12-16 and the reasons as below:

Regarding to claim 1, none of the prior art of record teaches or suggests a method comprising: sending a medium reservation reply message from said access point granting a medium reservation request and providing training feedback describing at least one measured transmission condition measured on a per antenna basis using each antenna where multiple antenna are used at said access point; and selecting at least one data transmission parameter based on the received training feedback. It would not have been obvious for a person skilled in the art to combine with other prior art of record in order to arrive at the claimed invention.

Regarding to claim 21, none of the prior art of record teaches or suggests Transmitting a medium reservation reply message from the first station to second station, the medium reservation reply message granting the medium reservation request from the second station and including training feedback

describing at least one measured transmission condition measured on a per antenna basis using each antenna where multiple antenna are used at said first station; and said training feedback to be used by the second station to select or adapt at least one transmission parameter. It would not have been obvious for a person skilled in the art to combine with other prior art of record in order to arrive at the claimed invention.

Regarding to claim 26, none of the prior art of record teaches or suggests an apparatus the apparatus adapted to receive a medium reservation request message via a wireless link at a first station to initiate training and to request message a medium reservation, said medium reservation request message includes training information comprising a training sequence, the apparatus further adapted to select at least one data transmission parameter based upon training feedback describing at least one measured transmission condition measured on a per antenna basis using each antenna where multiple antenna are used at said first station said training feedback included within a medium reservation reply message sent from first station. It would not have been

obvious for a person skilled in the art to combine with other prior art of record in order to arrive at the claimed invention.

Regarding to claim 30, none of the prior art of record teaches or suggests an apparatus comprising: the apparatus further adapted to measure a transmission condition and send a medium reservation reply message to the first station, the medium reservation reply message granting the request medium reservation and including training feedback describing at least one measured transmission condition measured on a per antenna basis using each antenna where multiple antenna are used at said apparatus, said training feedback to allow the first station to select at least one transmission parameter. It would not have been obvious for a person skilled in the art to combine with other prior art of record in order to arrive at the claimed invention.

Regarding to claim 32, none of the prior art of record teaches or suggests a method of transmitting information between first and second wireless stations, the method comprising: sending a medium reservation reply message from the second station to the first station to grant the requested medium

reservation and providing training feedback describing at least one measured transmission condition measured on a per antenna basis using each antenna where multiple antenna are used at said second station, the second station selecting at least one data transmission parameter based upon the received training feedback; and a data phase, where at least one data message is sent from the first station to the second station in a reserved medium according to the selected data transmission parameter. It would not have been obvious for a person skilled in the art to combine with other prior art of record in order to arrive at the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanh D. Phu whose telephone number is (571)272-7857. The examiner can normally be reached on M-Fr from 8:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay maung can be reached on (571) 272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control
Number: 10/719,208
Art Unit: 2618

Page 8

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sanh D Phu
Primary Examiner
Art Unit 2618

SP

11/22/07
[Signature]